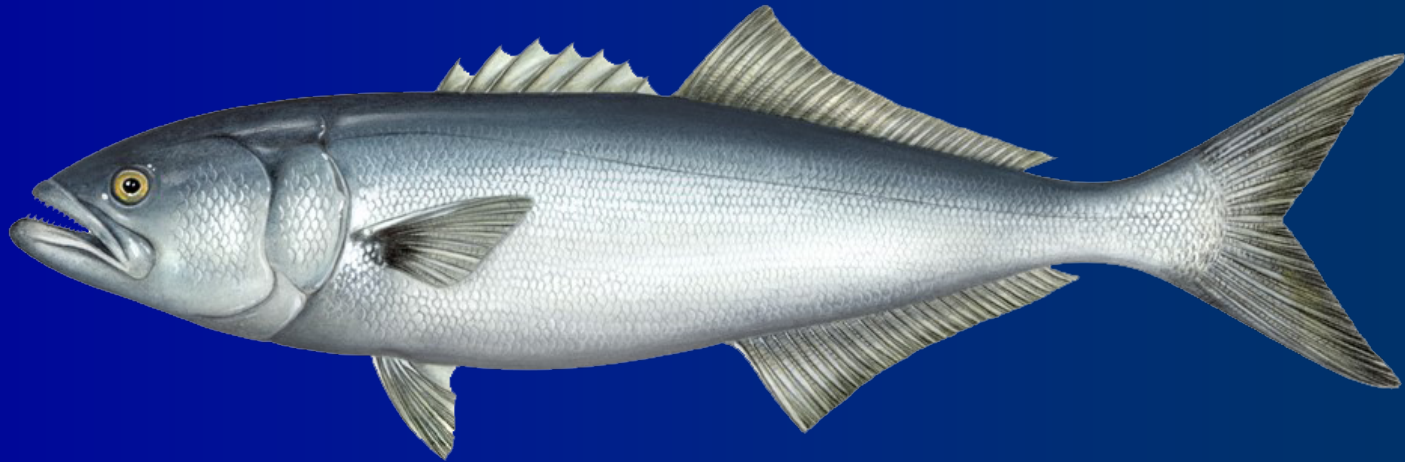




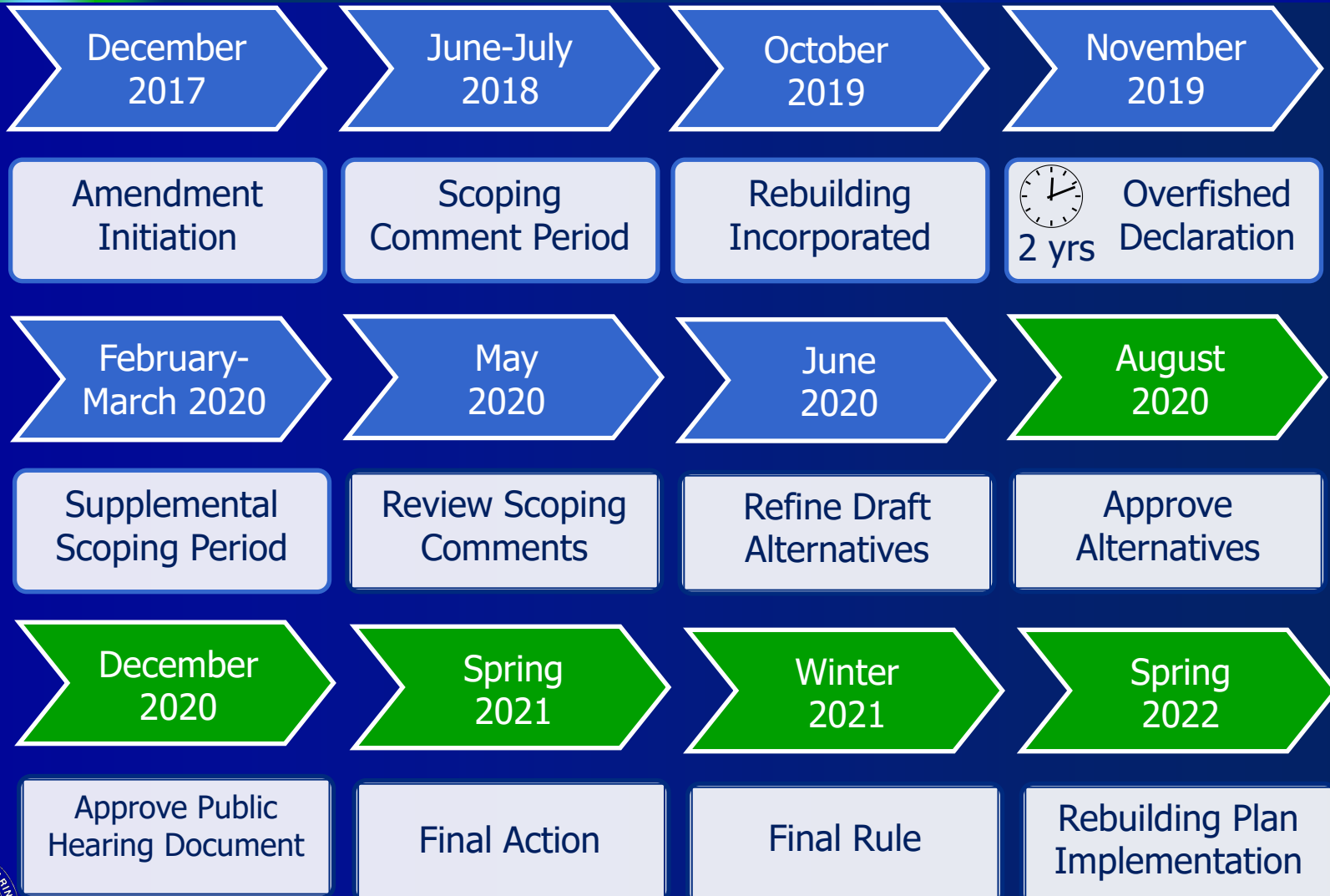
# Atlantic Bluefish



Joint Council/Board Meeting

June 17, 2020

# Timeline



# Outline & Objectives

- FMAT summary and discussion of draft alternatives
  1. FMP Goals and Objectives
  2. Sector Allocations
  3. Commercial Allocations to the States
  4. Transfers (Commercial State-to-State, Sector)
  5. Rebuilding Plan
  6. Other (Management Uncertainty, For-Hire Sector Separation, *de minimis*)
- Board & Council discussion on FMAT recommendations



# Issue 1: FMP Goals and Objectives

- Continued revision through Council/Board & FMAT recommendations
- Draft Amendment will contain proposed and status quo “options”
- Incorporated all comments from the last joint meeting



# Issue 1: Proposed FMP Goals and Objectives

**Goal 1.** Conserve the bluefish resource through stakeholder engagement to maintain sustainable recreational fishing and commercial harvest.

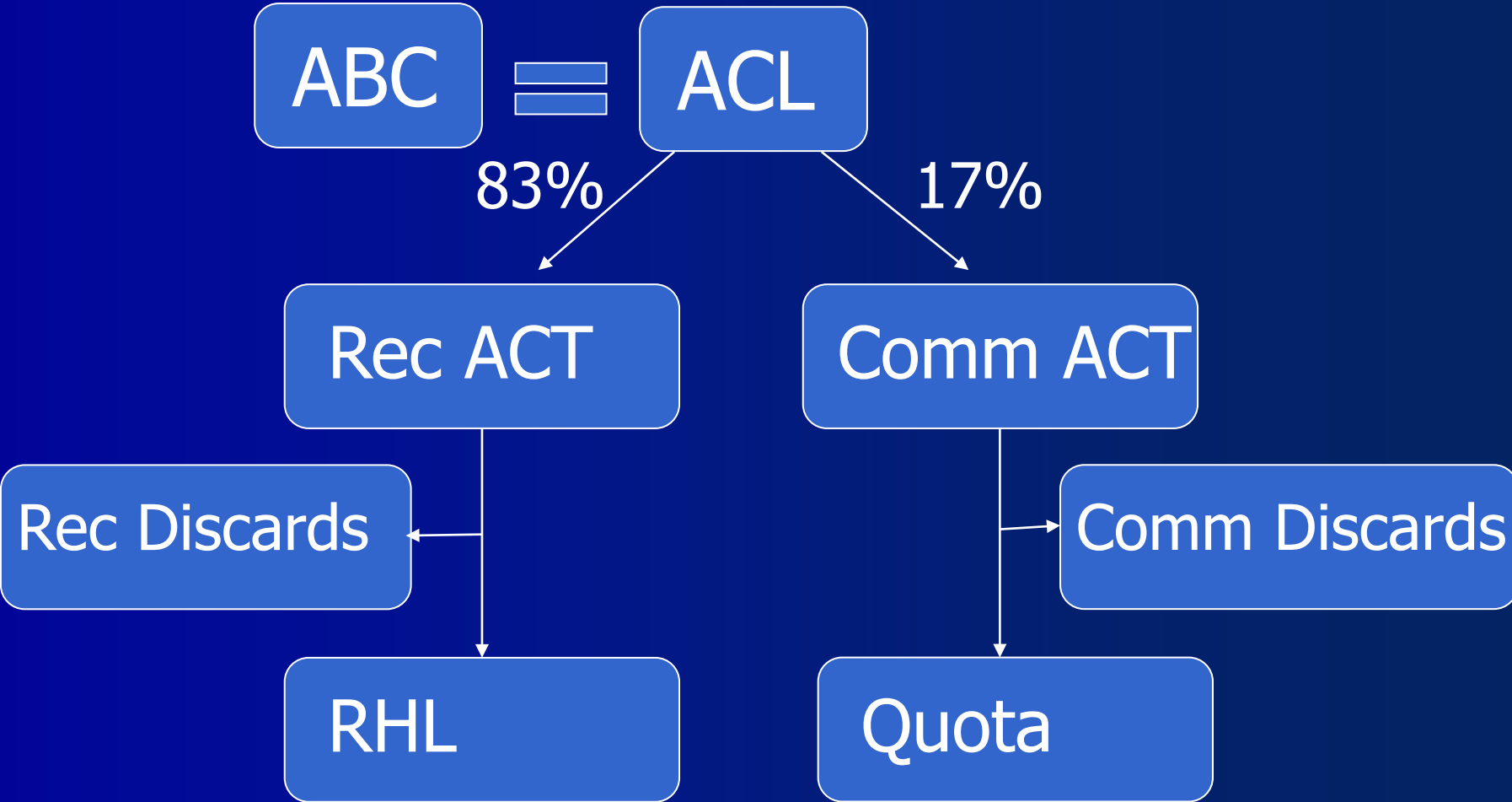
- **Objective 1.1.** Achieve and maintain a sustainable spawning stock biomass and rate of fishing mortality.
- **Objective 1.2.** Promote practices that reduce discard mortality within the recreational and commercial fishery.
- **Objective 1.3.** Maintain effective coordination between the National Marine Fisheries Service, Council, Commission, and member states to support the development and implementation of management measures.
  - **Strategy 2.1.** Promote compliance and effective enforcement of regulations.
  - **Strategy 2.2.** Promote science, monitoring, and data collection that support and enhance effective ecosystem-based management of the bluefish resource.

**Goal 2.** Provide fair and equitable access to the fishery across user groups throughout the management unit.

- **Objective 2.1.** Ensure the implementation of management measures provides fair and equitable access to the resource across to all groups along the coast.
- **Objective 2.2.** Consider the economic and social needs and priorities of all groups that access the bluefish resource in the development of new management measures.
- **Objective 2.3.** Maintain effective coordination with stakeholder groups to ensure optimization of economic and social benefits.



# Issue 2: Sector Allocations



# Issue 2: Sector Allocations - Discard Estimation Methodology Comparison

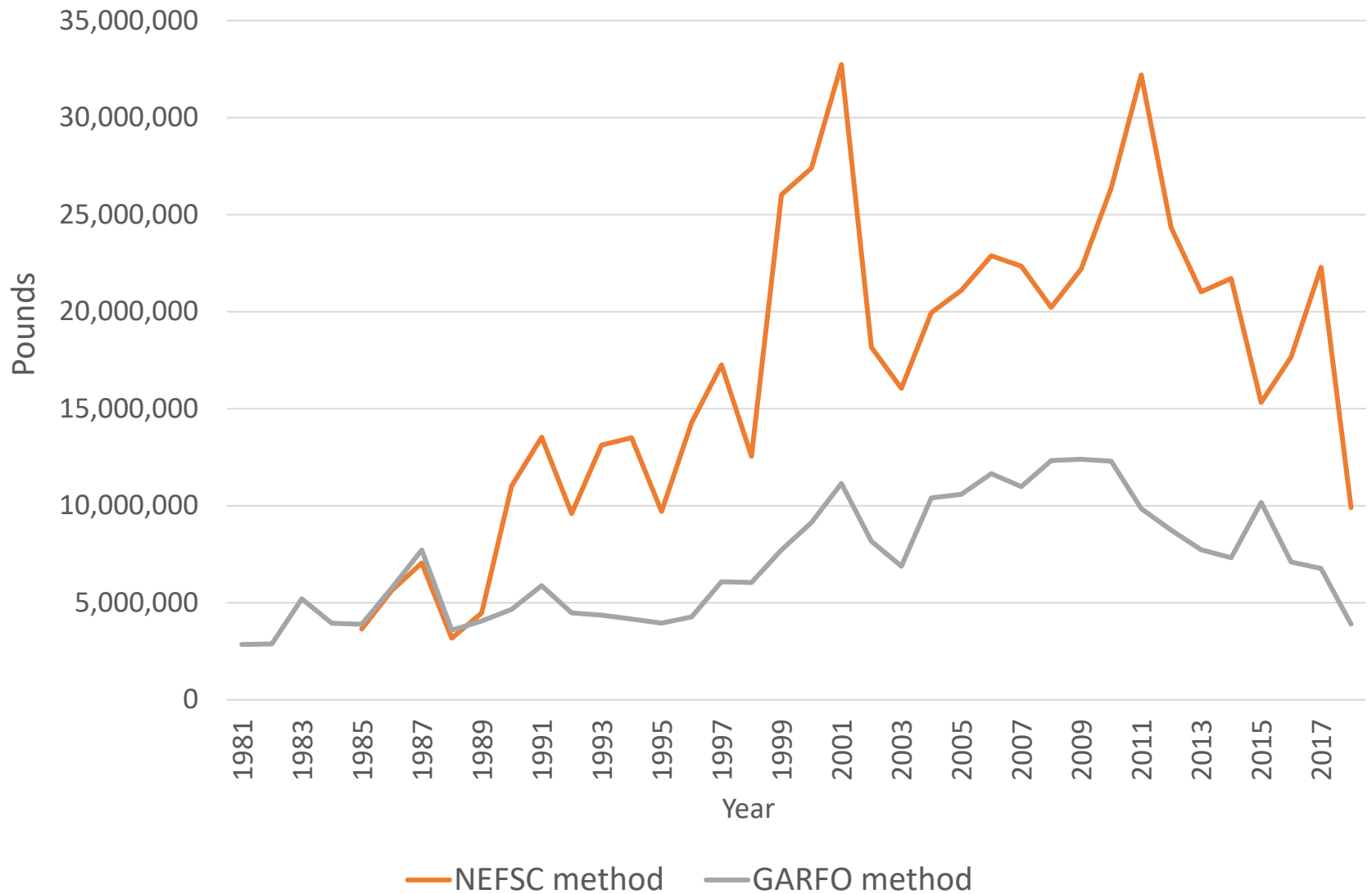
## ■ NEFSC Discard Estimation Method

- Approach used in stock assessments
- MC recommended as more scientifically rigorous
- Utilizes release length frequency
- Majority of release data collected from RI, CT and NJ

## ■ GARFO Discard Estimation Method

- Approach used by NOAA Fisheries to account for recreational catch and monitoring
- Assumes landed length frequency = released length frequency

# Recreational Dead Discard Estimates





# Issue 2: Sector Allocations

## ■ FMAT Comments

- Many of the allocation time series produce very similar percentages
  - Example: 5 & 10 year time series produce identical allocations; one alternative could be dropped
- Allocating catch between the sectors based on landings data ignores the catch and release aspect of the fishery.
- Recommend further exploration of the assumption that commercial discards are negligible

# Issue 2: Sector Allocation Alternatives

Alternative	Allocations based on catch data, GARFO Discards	Recreational Allocation	Commercial Allocation
Status quo	1981-1989 (Landings-based)	83%	17%
2.02	5 year (2014-2018)	89%	11%
2.03	10 year (2009-2018)	89%	11%
2.04	20 year (1999-2018)	87%	13%
2.05	Full Time Series (1981-2018)	86%	14%

Alternative	Allocations based on catch data, NEFSC Discards	Recreational Allocation	Commercial Allocation
2.06	5 year (2014-2018)	91%	9%
2.07	10 year (2009-2018)	91%	9%
2.08	20 year (1999-2018)	90%	10%
2.09	Full Time Series (1981-2018)	N/A	N/A

Alternative	Allocations based on landings data	Recreational Allocation	Commercial Allocation
2.10	5 year (2014-2018)	86%	14%
2.11	10 year (2009-2018)	86%	14%
2.12	20 year (1999-2018)	84%	16%
2.13	Full Time Series (1981-2018)	84%	16%

# Issue 2: Sector Allocations - Phasing-in or Trigger-based Allocations

## ■ FMAT comments

- Phase-in: Changing allocations on a continual basis during a rebuilding plan may unnecessarily overcomplicate management.
- Trigger-based: Again concerned about tradeoff between perceived benefit and added complexity

# Issue 2: Sector Allocations - Allocating in Numbers vs. Pounds of Fish

## ■ FMAT comments

- ABCs, ACTs, RHL, Comm quota all set in pounds; would require overhaul of current system
- To develop allocations based on numbers of fish as opposed to pounds of fish creates a disconnect between how the sectors are allocated catch and how that catch is accounted for.

# Issue 2: Sector Allocations

Issue	Approach	Summary of FMAT Recommendation
Sector Allocations	2.01 No Action/Status quo: Maintain current allocations	Must include in amendment.
	2.02-2.05 Allocations based on catch data, GARFO discards	<b>Guidance requested on removal or inclusion.</b>
	2.06-2.09 Allocations based on catch data, NEFSC discards	<b>Guidance requested on removal or inclusion.</b>
	2.10-2.13 Allocations based on landings data	<b>Recommend removal.</b> Basing allocation of catch between sectors using landings ignores the catch-and-release aspect of the fishery.
	Other. Phase-in or trigger?	Both approaches may overcomplicate allocations considering that the rebuilding plan will already add complexity to setting the RHL and the commercial quota. <b>FMAT requests final decision on removal or inclusion.</b>
	Other. Pounds or numbers of fish?	<b>Recommend using pounds</b> to stay consistent with how the quotas are set.

# Issue 3: Commercial Allocations to the States

## ■ FMAT Comments

- Phase-in approach, with or without triggers
- May mitigate socioeconomic consequences of big changes in quota for states. It would be challenging to coordinate during a rebuilding period.
- Ensure altering the commercial allocations does not make management too complicated for the respective states.

# Issue 3: Commercial Allocations to the States

## ■ Florida Proposal:

- Regional based allocations (New England: ME-CT, Mid-Atlantic: NY-VA, South Atlantic: NC-FL).
- Commercial trip limits to ensure all states have access to the resource.

## ■ FMAT Comments

- Regional approach will have major implications for how the transfer provisions need to change.
- Challenges concerning how and when commercial trip limits are implemented within regions.
- The introduction of commercial seasons may be necessary under this approach

# CFR § 648.162 Bluefish specifications

- Two or more states implementing a state commercial quota for bluefish may request approval from the Regional Administrator to combine their quotas, or part of their quotas, into an overall regional quota.



# Issue 3: Commercial Allocations to the States

Landings-Based Allocation Alternatives						
	3.1	3.2	3.3	3.4	3.5	3.6
State	Status quo (1981-1989)	5 year (2014-2018)	10 year (2009-2018)	20 year (1999-2018)	Time Series (1981-2018)	1/2 '81-'89 1/2 '09-'18
<b>ME</b>	0.67%	0.00%	0.01%	0.01%	0.43%	0.49%
<b>NH</b>	0.41%	0.03%	0.12%	0.17%	0.65%	0.33%
<b>MA</b>	6.71%	10.64%	10.16%	7.53%	7.18%	7.66%
<b>RI</b>	6.80%	11.81%	9.64%	8.00%	7.96%	7.59%
<b>CT</b>	1.26%	1.18%	1.00%	0.73%	1.12%	1.19%
<b>NY</b>	10.37%	20.31%	19.94%	19.44%	14.76%	13.01%
<b>NJ</b>	14.79%	11.23%	13.94%	15.23%	15.57%	14.57%
<b>DE</b>	1.88%	0.58%	0.40%	0.39%	1.09%	1.47%
<b>MD</b>	3.00%	1.50%	1.84%	1.54%	2.10%	2.68%
<b>VA</b>	11.86%	4.62%	5.85%	6.92%	8.79%	10.26%
<b>NC</b>	32.01%	32.06%	32.38%	36.94%	33.52%	32.13%
<b>SC</b>	0.10%	0.00%	0.00%	0.00%	0.02%	0.03%
<b>GA</b>	0.10%	0.00%	0.00%	0.01%	0.01%	0.01%
<b>FL</b>	10.04%	6.07%	4.75%	3.10%	6.91%	8.59%
<b>Total</b>	100.00%	100.01%	100.03%	100.02%	100.10%	100.00%

# Issue 3: Commercial Allocations to the States

Issue	Approach	Summary of FMAT Recommendation
Commercial Allocations to the States	3.1 No Action/Status quo: Maintain current allocations	Must include in amendment.
	3.2-3.6 Landings-based allocations	Keep for further development.
	Other. Florida proposal: regional-based commercial allocations	<b>Guidance requested on removal or inclusion.</b>
	Other. Phase-in or trigger?	Both approaches may overcomplicate allocations considering that the rebuilding plan will already add complexity to setting the RHL and the commercial quota. <b>FMAT requests final decision on removal or inclusion.</b>

# Issue 4: Commercial State-to-State Transfers

## ■ Status quo

- Any state implementing a state commercial quota for bluefish may request approval from the Regional Administrator to transfer part or all its annual quota to one or more states.
- Requests for transfer must be made by individual or joint letters

# Issue 4: Commercial State-to-State Transfers: Refereed

- This alternative offers that a neutral party match up transfer partners to ensure one or more states are not requesting quota transfers too early
- States to project their own landings
- Once a state reaches a threshold level, it may request a quota transfer
- Neutral party reviews landings projections

# Issue 4: Commercial State-to-State Transfers: Refereed

## ■ FMAT Comments:

- Recommends removal
- Refereed approach may provide unfair advantage to states that harvest their quota earlier in the year
- Proposed method may simply replicate current process with added restrictions and analysis requirements
- Many key details are left out of the proposal

# Issue 4: Commercial State-to-State Transfers: Refereed

- If this alternative is developed further, the FMAT requests guidance on the following:
  - Should commercial seasons be developed to ensure availability to all states?
  - Should there be a “threshold” level at which states can request quota?

# Issue 4: Commercial State-to-State Transfers

Issue	Approach	Summary of FMAT Recommendation
Transfers	4.1.1 No Action/Status quo: Maintain current transfer provisions	Must include in amendment. <b>Recommended by the FMAT.</b>
	4.1.2 Refereed: A neutral party (e.g. ASMFC) matches transfer partners to ensure that one or more states are not requesting quota transfers too early.	<b>Recommend removal.</b> The FMAT is unsure how this approach improves the current method considering all current protocols need to remain. The additional necessary protocols overcomplicate the process.

# Issue 4: Sector Transfers

## ■ Status quo

- Project recreational landings compared to the proposed RHL
- If the recreational fishery is not projected to land the RHL, the commercial quota could be set up to 10.5 million lbs.
- RHL is reduced accordingly
- Tool may be used annually through the specifications process



# Issue 4: Sector Transfers - Transfer Cap

- Amendment 1 established a transfer cap of 10.5 million lbs
  - Equal to average commercial landings for the period 1990-1997
- Proposed change: transfer cap defined as a fixed percentage of the ABC
  - Ex: 10-25% of ABC?
- FMAT Comments:
  - FMAT recommends further development
  - Unlike status quo, the proposal scales the transfer cap with biomass

# Issue 4: Sector Transfers - Bi-directional Transfers

- Direction of transfer determined through the specifications process

Scenario	Commercial Sector	Recreational Sector	Outcome
1	Projected to achieve quota	Projected to achieve RHL	No transfer
2	Projected to achieve quota	Projected to not achieve RHL	Transfer to comm
3	Projected to not achieve quota	Projected to achieve RHL	Transfer to rec
4	Projected to not achieve quota	Projected to not achieve RHL	No transfer

- FMAT Comments:
  - Supports continued development
  - Public support from both recreational and commercial fisheries

# Issue 4: Sector Transfers

Issue	Approach	Summary of FMAT Recommendation
Transfers	4.2.1 No Action/Status quo: Maintain current transfer provisions	Must include in amendment.
	4.2.2 Transfer Cap: Set a transfer cap as a fixed percentage of the ABC.	Keep for further development. <b>FMAT is requesting guidance</b> on what might be a reasonable percent (10-25%?).
	4.2.3 Bi-directional: Allow the Council and Board the ability to determine if quota transfers should occur in either direction.	Keep for further development. <b>FMAT is requesting further guidance</b> on the development of this alternative.

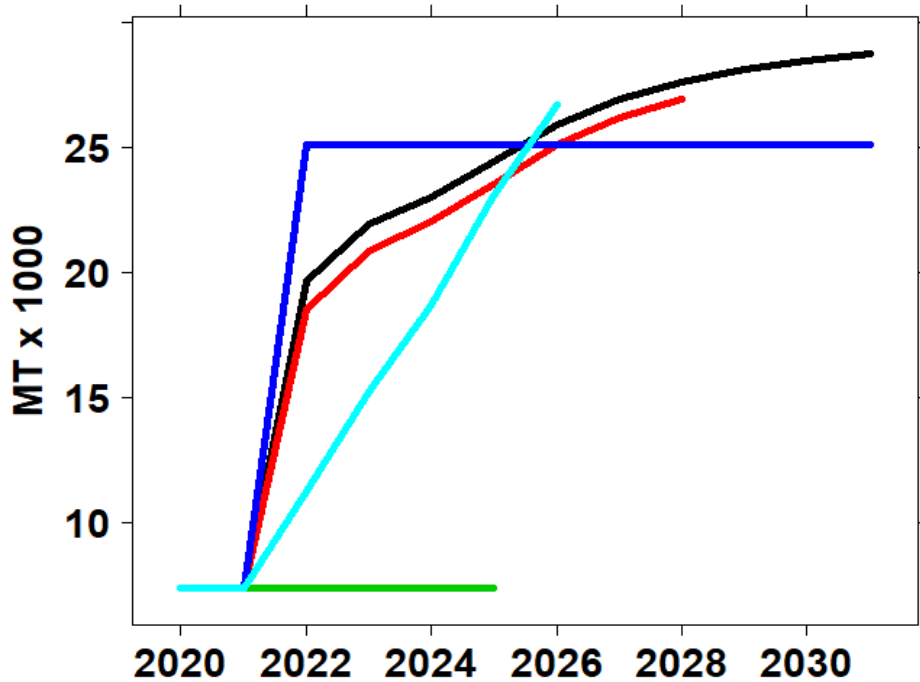
## Issue 5: Rebuilding Plan

- Adjustments to the Council's risk policy (for bluefish only) are necessary under alternatives 5.3, 5.4, and 5.5.
- FMAT Comments
  - Longer projections may have more uncertainty
  - ABCs or F values will be adjusted (depending on the projection) through specifications within the proposed timeline.
  - The FMAT is requesting guidance on which alternative(s) the Council/Board prefer and if there are any other rebuilding alternatives they would like to request.

# Issue 5: Rebuilding Plan

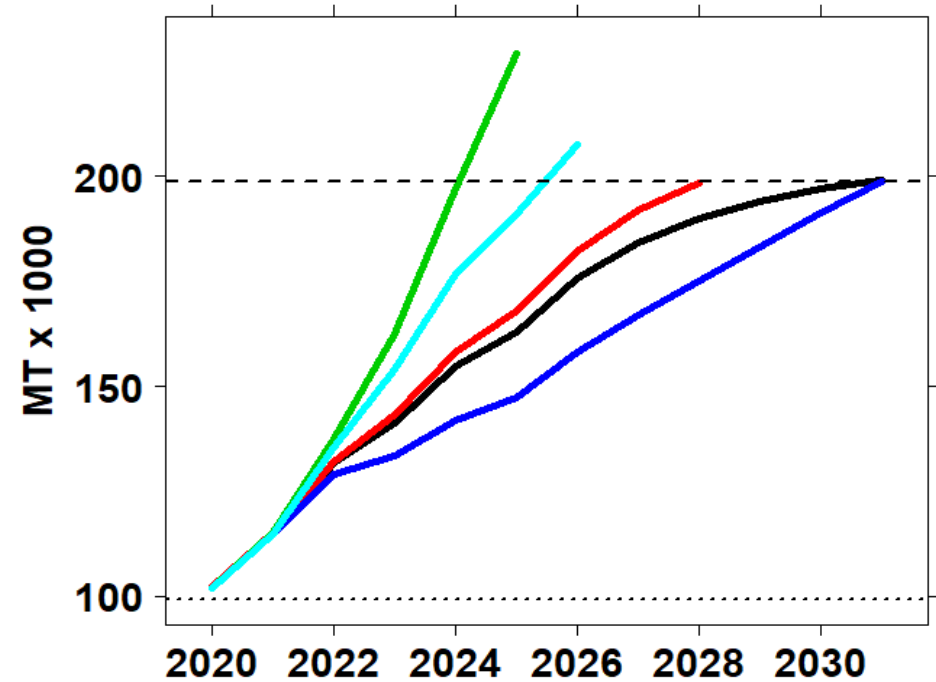
## Catch

constF10yrs — constHarvHigh —  
constF7yrs — Pstar —  
constHarv —



## SSB

constF10yrs — constHarvHigh —  
constF7yrs — Pstar —  
constHarv —



# Issue 5: Rebuilding Plan

Alternative	Rebuilding Plan	Duration	*Adjustment to Council Risk Policy	Summary of FMAT Recommendation
5.1	Status Quo	N/A	N/A	Must include in amendment.
5.2	Constant Harvest	4 years	No	<b>FMAT is requesting further guidance on which alternatives (if any) be removed.</b>
5.3	Constant Fishing Mortality	10 years	Yes	
5.4	Constant Fishing Mortality	7 years	Yes	
5.5	Constant Harvest (Highest Catch)	10 years	Yes	
5.6	P* (Council Risk Policy)	5 years	N/A	

\*Adjustment to the Council Risk Policy will be done through development of the Environmental Assessment and adds minimal work.



## Issue 6: Other Issues - Sector Specific Management Uncertainty

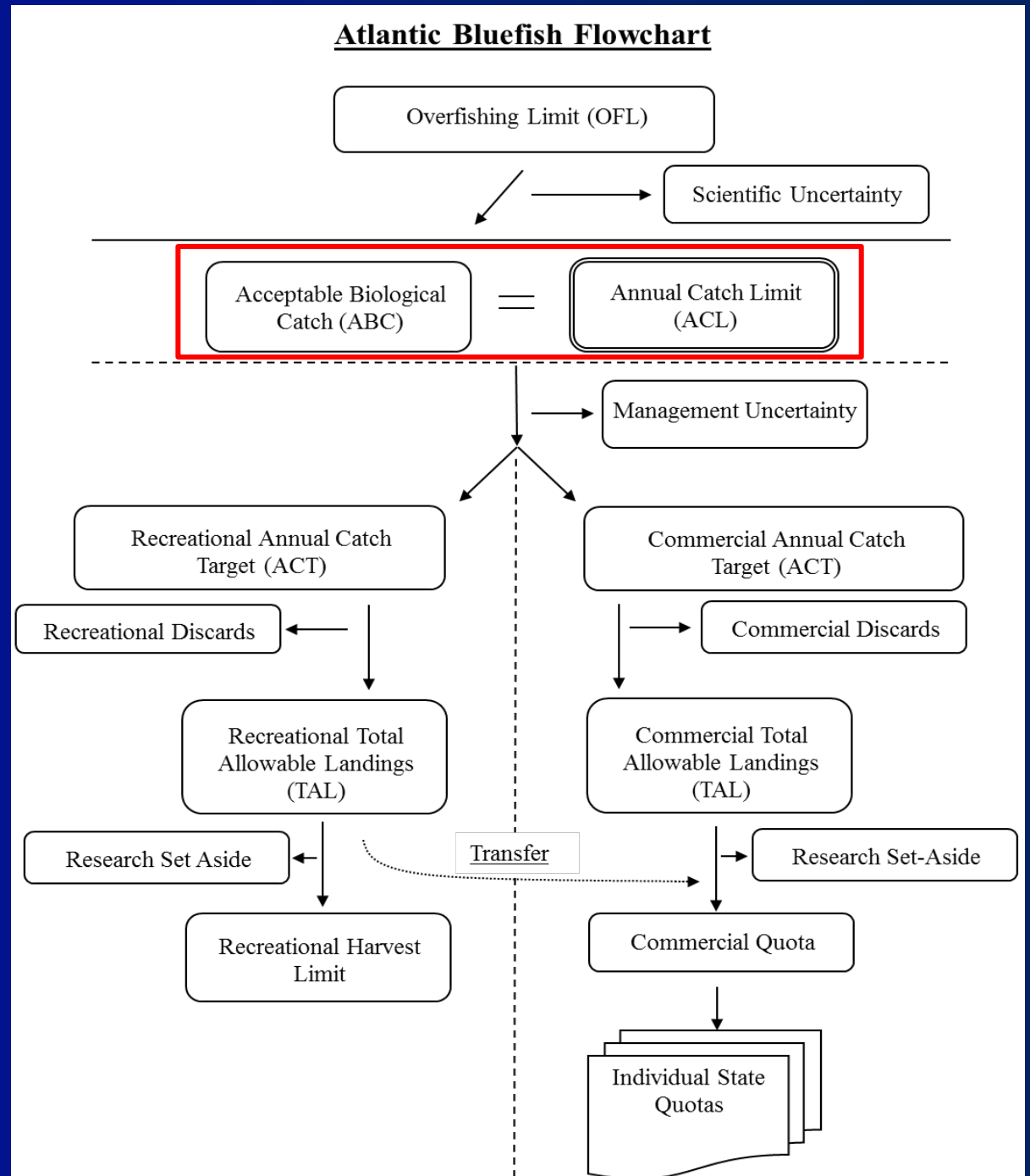
- The FMAT agreed that this concept should be left in the amendment for further consideration.
- Refining the management uncertainty tool will enable it to target one specific sector while not negatively affecting the other sector.
  - E.g. The discard calculations have been a management uncertainty concern, however, no reductions for management uncertainty have occurred in recent years because it would lead to reductions in the commercial quota.



# Issue 6: Other Issues

## Sector Specific Management Uncertainty (6.1.1)

### Status Quo

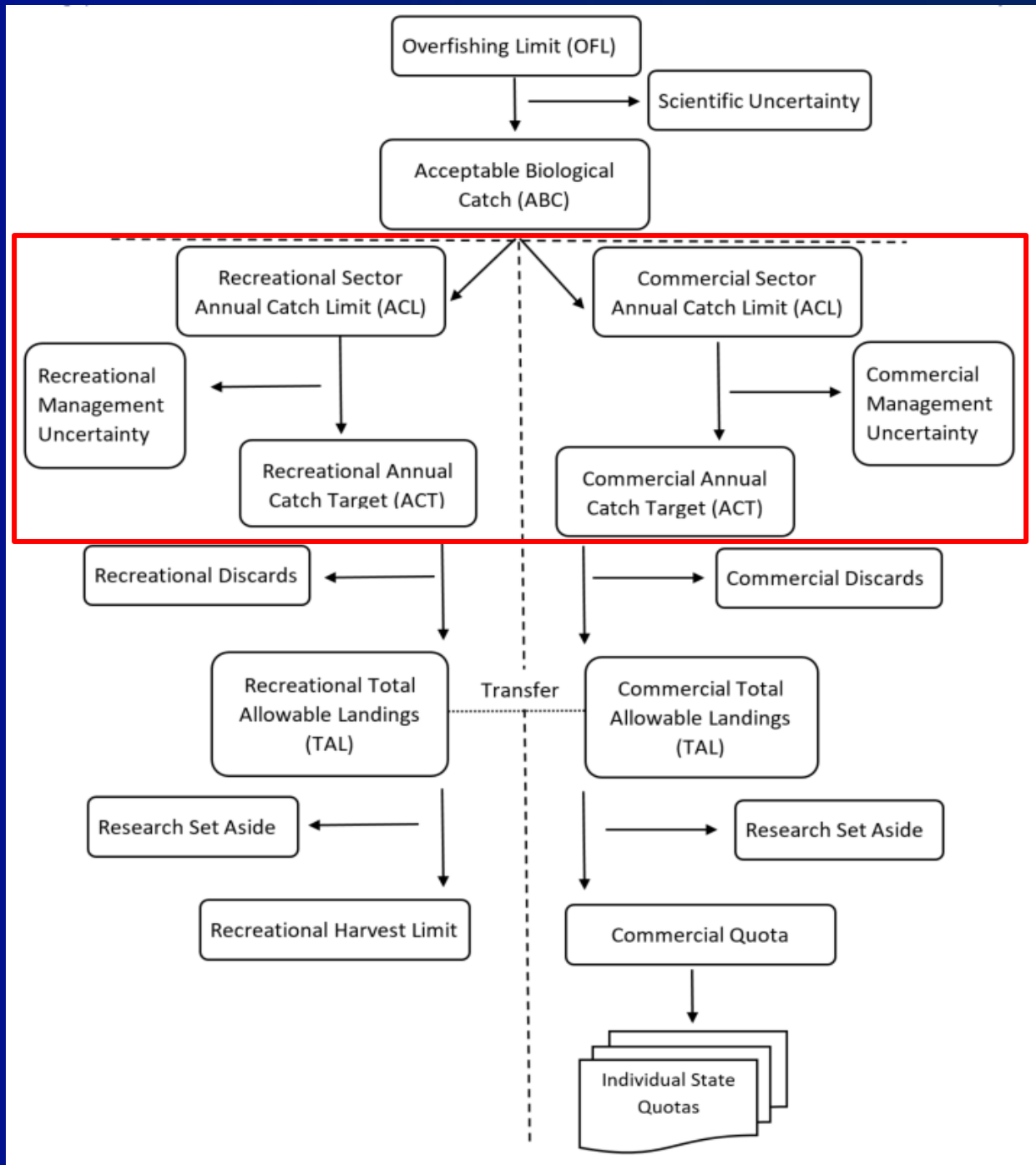




# Issue 6: Other Issues

## Sector Specific Management Uncertainty (6.1.2)

## Post-Sector Split



# Issue 6: Other Issues - Sector Specific Management Uncertainty (6.1.2)

Issue	Approach	Summary of FMAT Recommendation
Other: Management Uncertainty	6.1.1 No Action/Status quo	Must include in amendment.
	6.1.2 Post-Sector Split	Keep for further development.

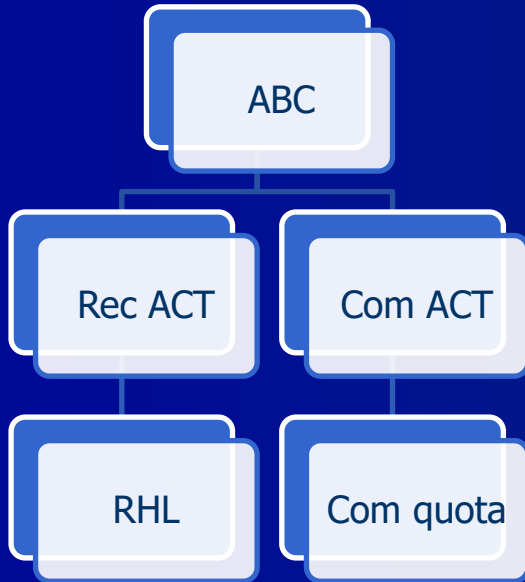


# Issue 6: Other Issues - For-Hire Sector Separation

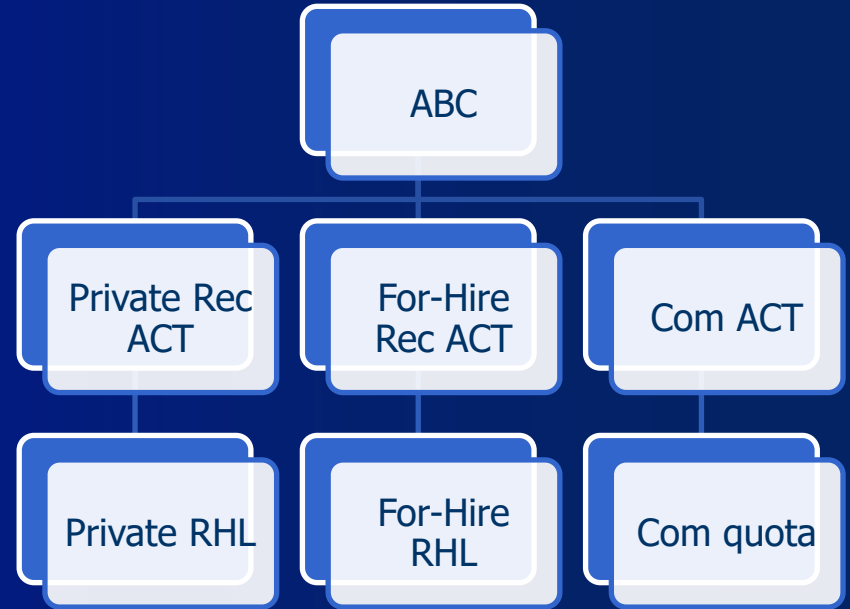
## ■ **FMAT Comments: Allocation Structure**

- 3 different potential structures for division of for-hire vs. private allocation:
  - ACL level
  - Sub-ACL level
  - RHL level
- The different structures each require development of different accountability measures.

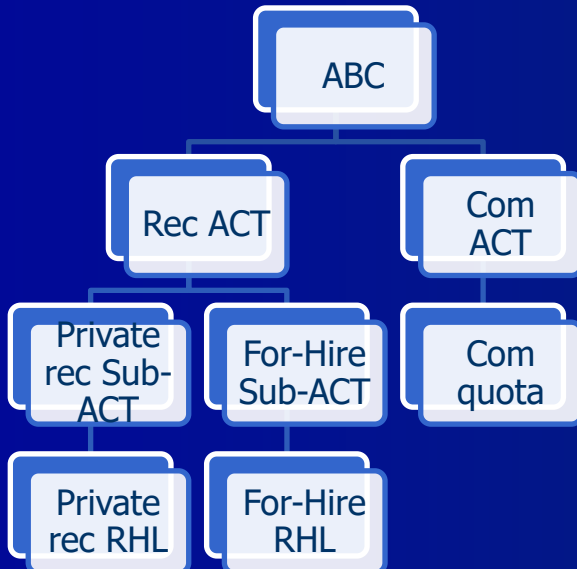
## A: Status quo



## B: ACT Level



## C: Sub-ACT Level

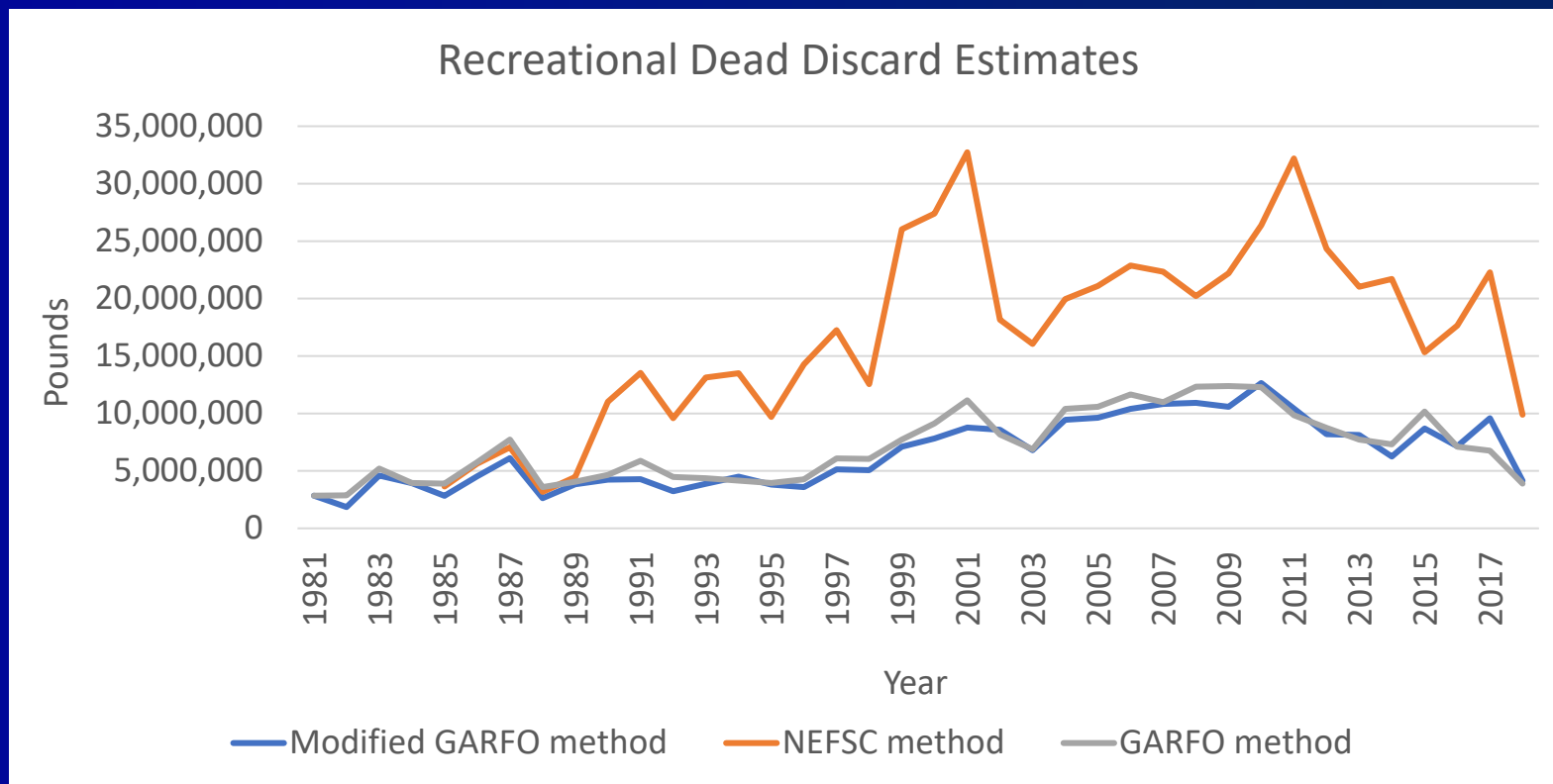


## D: RHL Level



# Issue 6: Other Issues - For-Hire Sector Separation

- The GARFO method for calculating discards in lbs. does not incorporate a mode component.
- In response, the FMAT developed a modified-GARFO method that estimates discards in weight at the mode level.



# Issue 6: Other Issues - For-Hire Sector Separation

Alternative	Landings-Based	For-Hire Allocation	Private/Shore Allocation
<b>6.2.02</b>	5 year (2014-2018)	7%	93%
<b>6.2.03</b>	10 year (2009-2018)	9%	91%
<b>6.2.04</b>	20 year (1999-2018)	12%	88%

Alternative	Catch-Based, Modified GARFO Discards	For-Hire Allocation	Private/Shore Allocation
<b>6.2.05</b>	5 year (2014-2018)	6%	94%
<b>6.2.06</b>	10 year (2009-2018)	8%	92%
<b>6.2.07</b>	20 year (1999-2018)	10%	90%

Alternative	Catch-Based, NEFSC Discards	For-Hire Allocation	Private/Shore Allocation
<b>6.2.08</b>	5 year (2014-2018)	N/A	N/A
<b>6.2.09</b>	10 year (2009-2018)	N/A	N/A
<b>6.2.10</b>	20 year (1999-2018)	N/A	N/A

# Issue 6: Other Issues - For-Hire Sector Separation

## ■ FMAT Comments:

- Concerns about the reliability of MRIP data at the mode level (high PSEs).
- Cannot use VTR data since some state vessels do not submit VTRs.
- Small portion of the recreational fishery → Small allocation
- Already have different measures than private anglers which are reviewed yearly through specifications.
- For-hire sector separation could be addressed through a separate action later and may also be better addressed in the context of a multi-species action.

# Issue 6: Other Issues - For-Hire Sector Separation

Issue	Approach	Summary of FMAT Recommendation
Other: For-Hire Sector Separation	6.2.02-6.2.04 Allocations based on landings data	<b>Recommend removal.</b> Separate measures already exist and can be considered annually through the specifications process.
	6.2.05-6.2.07 Allocations based on catch data, GARFO discards	<b>Recommend removal.</b> Separate measures already exist and can be considered annually through the specifications process.
	6.2.08-6.2.10 Allocations based on catch data, NEFSC discards	<b>Recommend removal. There is a lack of necessary data to generate discards by mode using the NEFSC method.</b>

- **If this alternative set remains, some guidance on the allocation structure (A, B, C, D) would help move development of alternatives along.**



## Issue 6: Other Issues – *de minimis*

- During scoping, Georgia DNR proposed a *de minimis* provision
- To qualify for *de minimis* status:
  - 3yr avg (commercial + recreational landings) < 1% coast wide landings
- *De minimis* status would relieve a state from having to adopt fishery regulations
- Commission has an existing *de minimis* status provision which provides exemption of the requirement to conduct fishery independent monitoring.



## Issue 6: Other Issues – *de minimis*

- FMAT Comments:
  - The FMAT agreed that the *de minimis* provision should be kept in the amendment but should remain a state waters only provision.
  - Applying the *de minimis* provision to federal waters would overcomplicate the issue and would likely not be approved by NOAA Fisheries.



# Issue 6: Other Issues – *de minimis*

Issue	Approach	Summary of FMAT Recommendation
Other: <i>de minimis</i>	6.3.1 No Action/Status quo	Must include in amendment.
	6.3.2 State Waters	Keep for further development. Remain a state waters only provision.

## Questions for the Board:

- Is a 1% threshold an appropriate cutoff to be considered *de minimis* given that the cutoff under the current Commission *de minimis* provision is 0.1% of total commercial landings?
- What would the repercussions be if a state exceeded the 1% threshold? Would a state be required to adopt the latest recreational measures the following year or be found out of compliance?



# Next Steps. Questions?

- June/July 2020: Revise draft alternatives with the FMAT based on Council/Board input
- August 2020: Presentation of revised draft alternatives at the joint meeting
  - Approve for input into a public hearing document
- December 2020: Approve a public hearing document at the joint meeting
  
- September 2021: Formal submission to NOAA Fisheries



# Issue 1: Proposed FMP Goals and Objectives

**Goal 1.** Conserve the bluefish resource through stakeholder engagement to maintain sustainable recreational fishing and commercial harvest.

- **Objective 1.1.** Achieve and maintain a sustainable spawning stock biomass and rate of fishing mortality.
- **Objective 1.2.** Promote practices that reduce discard mortality within the recreational and commercial fishery.
- **Objective 1.3.** Maintain effective coordination between the National Marine Fisheries Service, Council, Commission, and member states to support the development and implementation of management measures.
  - **Strategy 2.1.** Promote compliance and effective enforcement of regulations.
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**Goal 2.** Provide fair and equitable access to the fishery across user groups throughout the management unit.

- **Objective 2.1.** Ensure the implementation of management measures provides fair and equitable access to the resource across to all groups along the coast.
- **Objective 2.2.** Consider the economic and social needs and priorities of all groups that access the bluefish resource in the development of new management measures.
- **Objective 2.3.** Maintain effective coordination with stakeholder groups to ensure optimization of economic and social benefits.



# Issue 2: Sector Allocations

Issue	Approach	Summary of FMAT Recommendation
Sector Allocations	2.01 No Action/Status quo: Maintain current allocations	Must include in amendment.
	2.02-2.05 Allocations based on catch data, GARFO discards	<b>Guidance requested on removal or inclusion.</b>
	2.06-2.09 Allocations based on catch data, NEFSC discards	<b>Guidance requested on removal or inclusion.</b>
	2.10-2.13 Allocations based on landings data	<b>Recommend removal.</b> Basing allocation of catch between sectors using landings ignores the catch-and-release aspect of the fishery.
	Other. Phase-in or trigger?	Both approaches may overcomplicate allocations considering that the rebuilding plan will already add complexity to setting the RHL and the commercial quota. <b>FMAT requests final decision on removal or inclusion.</b>
	Other. Pounds or numbers of fish?	<b>Recommend using pounds</b> to stay consistent with how the quotas are set.

# Issue 3: Commercial Allocations to the States

Issue	Approach	Summary of FMAT Recommendation
Commercial Allocations to the States	3.1 No Action/Status quo: Maintain current allocations	Must include in amendment.
	3.2-3.6 Landings-based allocations	Keep for further development.
	Other. Florida proposal: regional-based commercial allocations	<b>Guidance requested on removal or inclusion.</b>
	Other. Phase-in or trigger?	Both approaches may overcomplicate allocations considering that the rebuilding plan will already add complexity to setting the RHL and the commercial quota. <b>FMAT requests final decision on removal or inclusion.</b>

# Issue 4: Commercial State-to-State Transfers

Issue	Approach	Summary of FMAT Recommendation
Transfers	4.1.1 No Action/Status quo: Maintain current transfer provisions	Must include in amendment. <b>Recommended by the FMAT.</b>
	4.1.2 Refereed: A neutral party (e.g. ASMFC) matches transfer partners to ensure that one or more states are not requesting quota transfers too early.	<b>Recommend removal.</b> The FMAT is unsure how this approach improves the current method considering all current protocols need to remain. The additional necessary protocols overcomplicate the process.



# Issue 4: Sector Transfers

Issue	Approach	Summary of FMAT Recommendation
Transfers	4.2.1 No Action/Status quo: Maintain current transfer provisions	Must include in amendment.
	4.2.2 Transfer Cap: Set a transfer cap as a fixed percentage of the ABC.	Keep for further development. <b>FMAT is requesting guidance</b> on what might be a reasonable percent (10-25%?).
	4.2.3 Bi-directional: Allow the Council and Board the ability to determine if quota transfers should occur in either direction.	Keep for further development. <b>FMAT is requesting further guidance</b> on the development of this alternative.

# Issue 5: Rebuilding Plan

Alternative	Rebuilding Plan	Duration	*Adjustment to Council Risk Policy	Summary of FMAT Recommendation
5.1	Status Quo	N/A	N/A	Must include in amendment.
5.2	Constant Harvest	4 years	No	<b>FMAT is requesting further guidance on which alternatives (if any) be removed.</b>
5.3	Constant Fishing Mortality	10 years	Yes	
5.4	Constant Fishing Mortality	7 years	Yes	
5.5	Constant Harvest (Highest Catch)	10 years	Yes	
5.6	P* (Council Risk Policy)	5 years	N/A	

\*Adjustment to the Council Risk Policy will be done through development of the Environmental Assessment and adds minimal work.



# Issue 6: Other Issues - Sector Specific Management Uncertainty (6.1.2)

Issue	Approach	Summary of FMAT Recommendation
Other: Management Uncertainty	6.1.1 No Action/Status quo	Must include in amendment.
	6.1.2 Post-Sector Split	Keep for further development.



# Issue 6: Other Issues - For-Hire Sector Separation

Issue	Approach	Summary of FMAT Recommendation
Other: For-Hire Sector Separation	6.2.02-6.2.04 Allocations based on landings data	<b>Recommend removal.</b> Separate measures already exist and can be considered annually through the specifications process.
	6.2.05-6.2.07 Allocations based on catch data, GARFO discards	<b>Recommend removal.</b> Separate measures already exist and can be considered annually through the specifications process.
	6.2.08-6.2.10 Allocations based on catch data, NEFSC discards	<b>Recommend removal. There is a lack of necessary data to generate discards by mode using the NEFSC method.</b>

- If this alternative set remains, some guidance on the allocation structure (A, B, C, D) would help move development of alternatives along.

# Issue 6: Other Issues – *de minimis*

Issue	Approach	Summary of FMAT Recommendation
Other: <i>de minimis</i>	6.3.1 No Action/Status quo	Must include in amendment.
	6.3.2 State Waters	Keep for further development. Remain a state waters only provision.

## Questions for the Board:

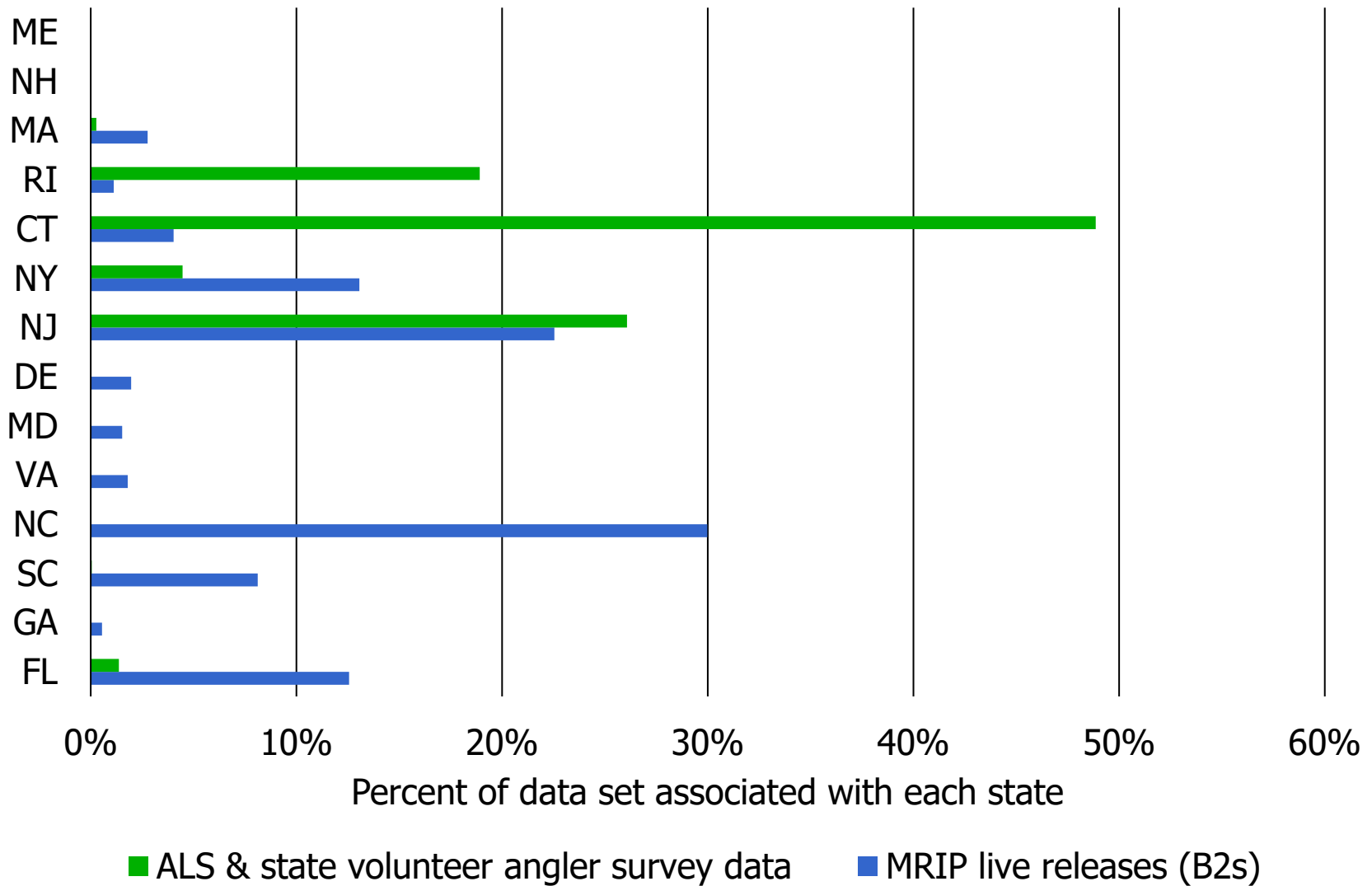
- Is a 1% threshold an appropriate cutoff to be considered *de minimis* given that the cutoff under the current Commission *de minimis* provision is 0.1% of total commercial landings?
- What would the repercussions be if a state exceeded the 1% threshold? Would a state be required to adopt the latest recreational measures the following year or be found out of compliance?



# Backup Slides



## Spatial distribution of live releases vs. release at length data (2016-2018)

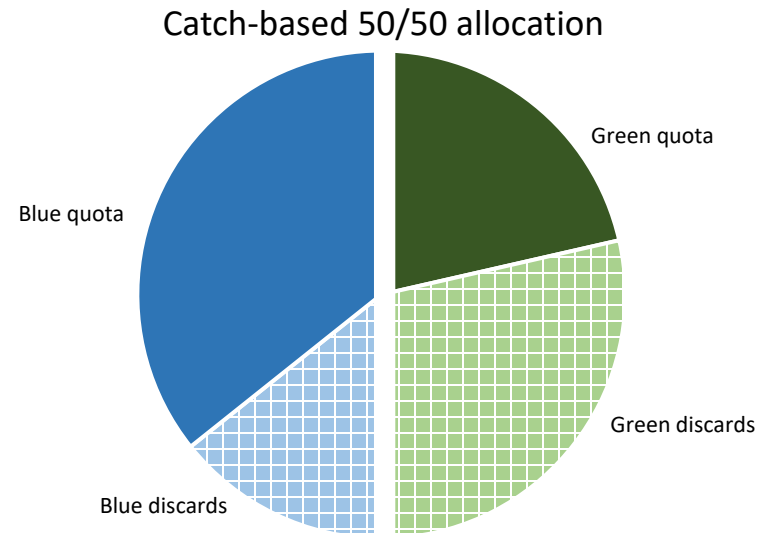
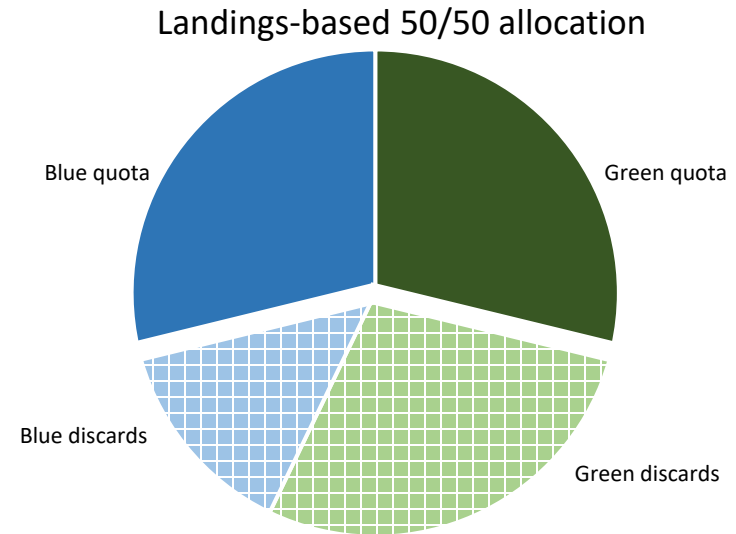


\*MRIP i9s not included; i9s represent a much smaller proportion of total length frequency data

# Catch vs. landings-based allocations

- Blue and green sectors.
- 50/50 allocation.
- In recent years, both sectors have equal landings, but dead discards in the green sector are double those in the blue sector.
- If the allocation is landings-based, both sectors will have the same quota, but the green sector will have a higher ACL due to its greater expected discards.
- If the allocation is catch-based, both sectors will have equal ACLs, but the blue sector will have a higher quota due to lower expected discards.

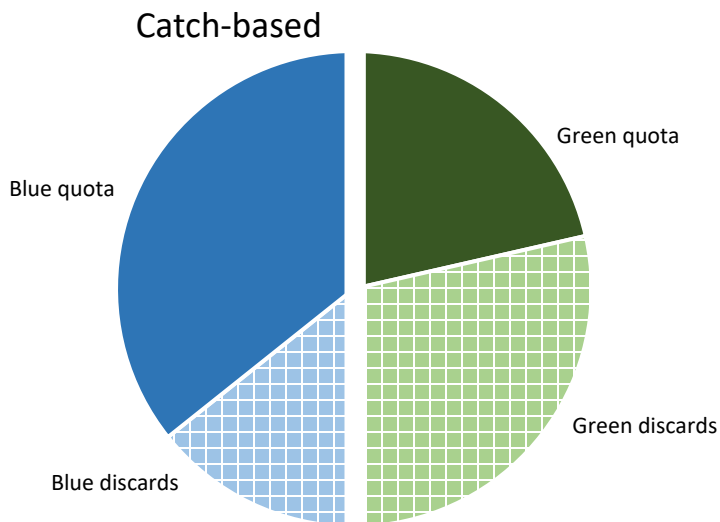
*How do you make the first cut to the pie?*



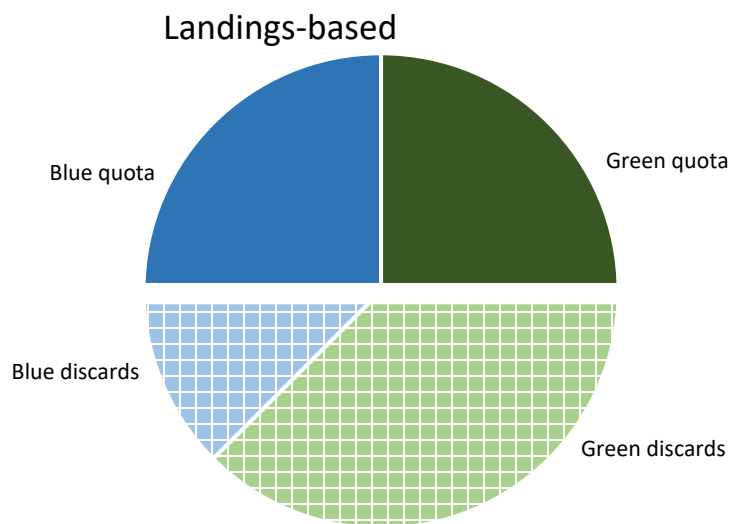
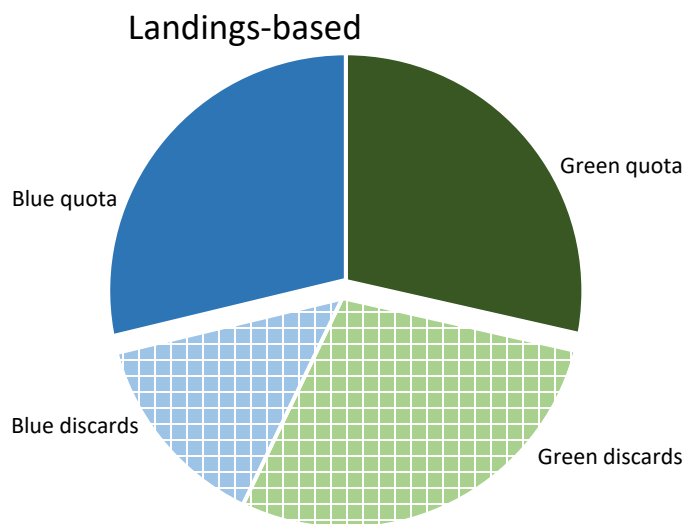
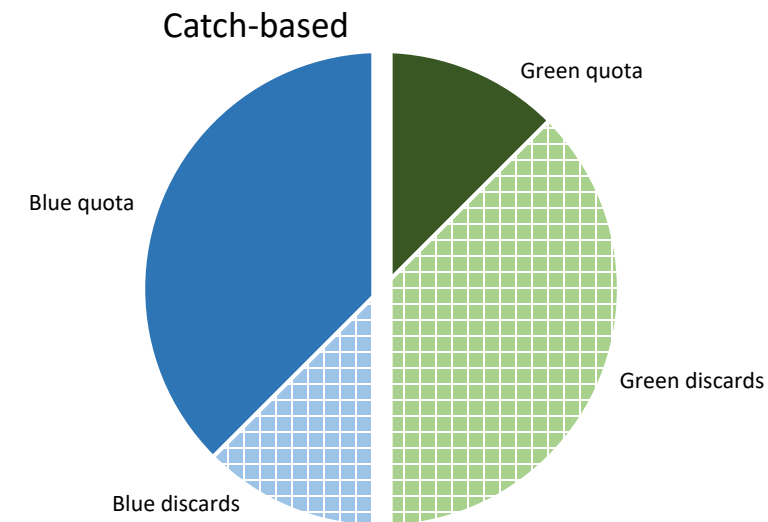


An increase in expected discards in the green sector impacts the blue quota under a landings-based allocation, but not under a catch-based allocation.

### Example from previous slide:



### Same, but with higher expected green discards:



# Issue 4: Commercial State-to-State Transfers

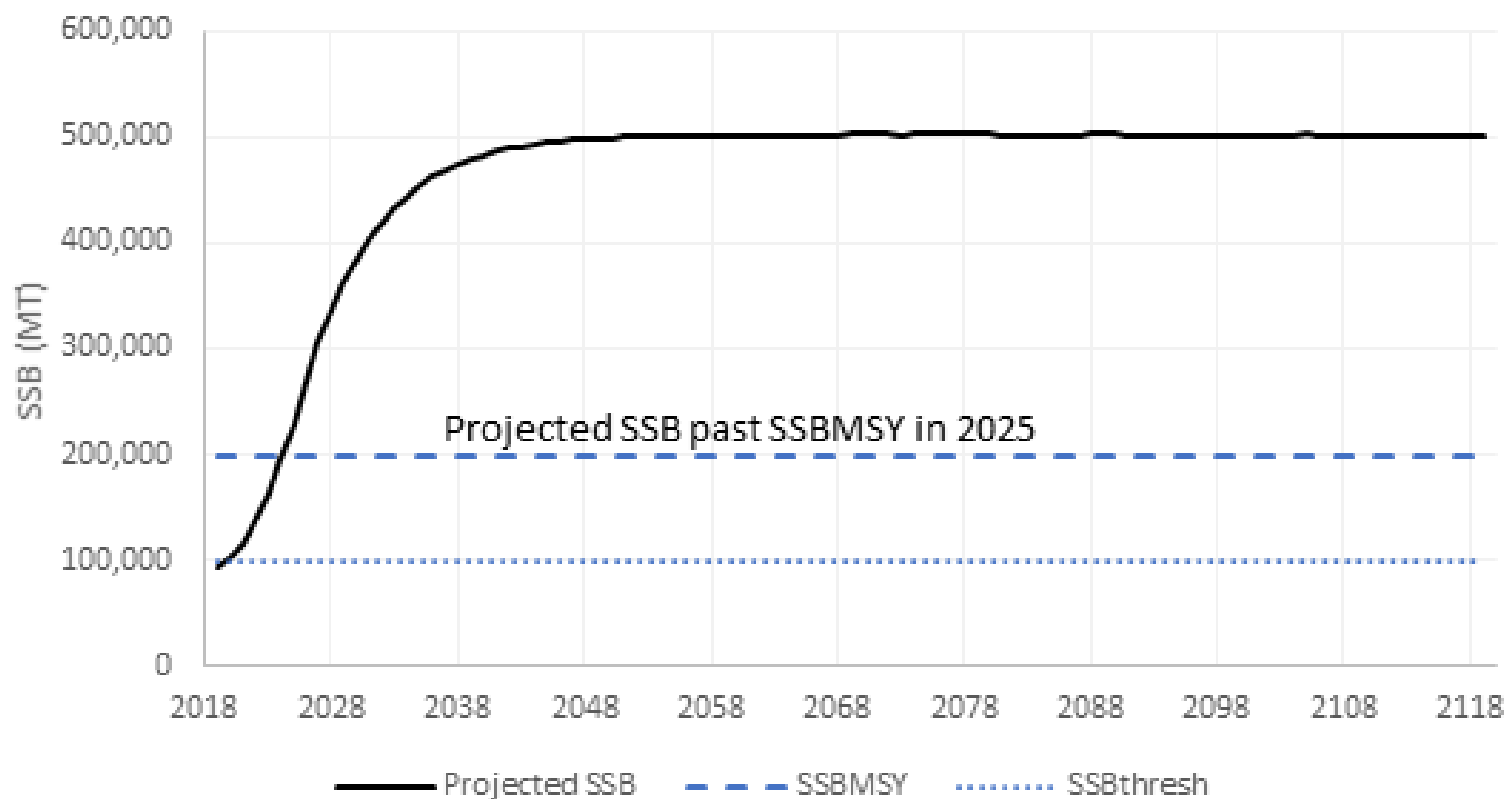
- FMAT recommends status quo
  - Very useful tool for adaptive management
  - If removed, ensure transfers are added as a frameworkable action

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average
ME	0	-52,000	-25,000	-45,000	0	0	0	0	0	-45,000	-30,000	-32,000	0	0	-16,357
NH	0	0	0	0	0	0	0	100,000	0	0	0	-20,000	0	0	5,714
MA	0	0	0	0	0	0	0	0	200,000	45,000	250,000	225,000	0	0	51,429
RI	0	60,000	155,000	-50,000	0	0	0	0	0	100,000	180,000	132,000	150,338	0	51,953
CT	0	0	0	-20,000	-75,000	0	0	0	0	0	0	0	0	0	-6,786
NY	0	250,000	450,000	455,000	425,000	0	200,000	50,000	300,000	250,000	550,000	420,000	0	0	239,286
NJ	0	0	309,125	0	0	0	0	0	-300,000	-50,000	0	-40,000	-50,000	0	-9,348
DE	0	-15,000	-80,000	-90,000	0	0	0	0	0	0	0	-50,000	0	0	-16,786
MD	0	-45,000	-50,000	-50,000	0	0	0	0	0	-50,000	0	-50,000	0	0	-17,500
VA	0	-525,000	-350,000	0	-150,000	0	0	0	0	0	-250,000	-210,000	-338	0	-106,096
NC	0	652,000	0	-100,000	0	0	0	-100,000	-200,000	0	-550,000	-225,000	-100,000	0	-44,500
SC	0	0	0	0	0	0	0	0	0	0	0	-150,000	0	0	-10,714
GA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FL	0	-325,000	-409,125	-100,000	-200,000	0	-200,000	-50,000	0	-250,000	-150,000	0	0	0	-120,295

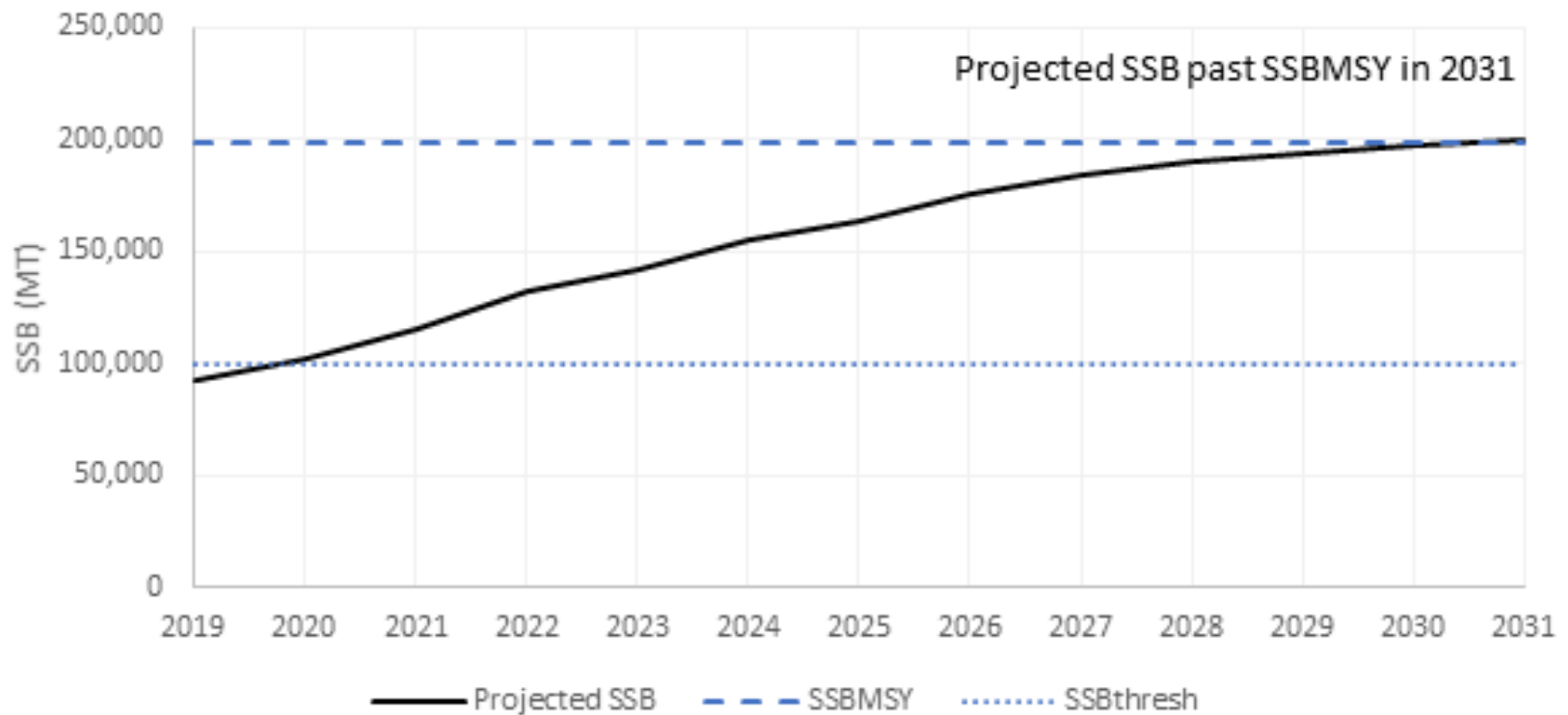
# Bi-directional Comm>Rec Transfer Example

- Summer 2020
  - MC develops rec and comm landings projections
  - Comm sector projected to underachieve quota
- Joint Meeting August 2020
  - Board and Council set RHL with transfer to Rec sector included
- Joint Meeting December 2020
  - Set Rec measures to achieve RHL

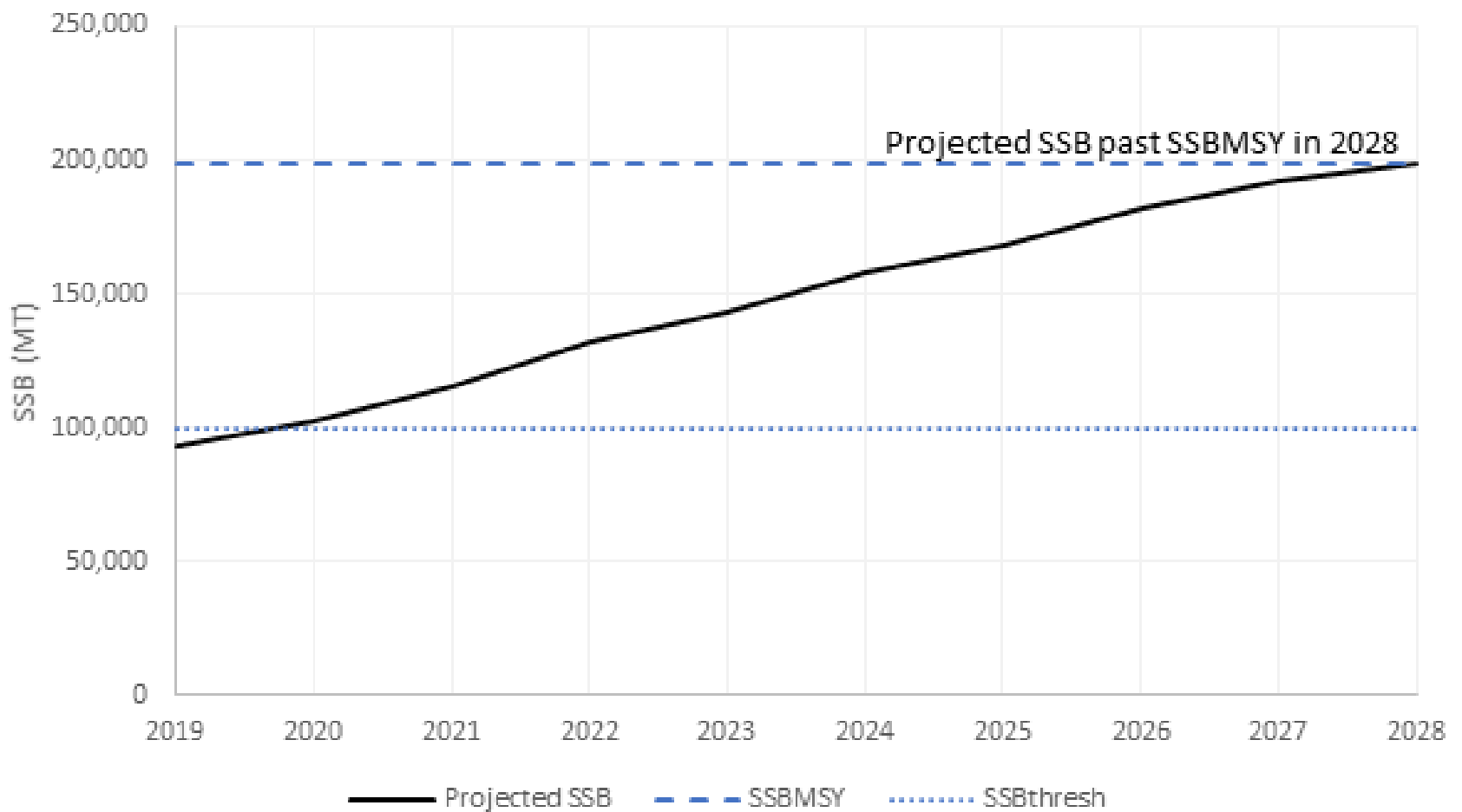
## Bluefish projection assuming 2019 ABC, Avg ABC AOP 2019 for rest



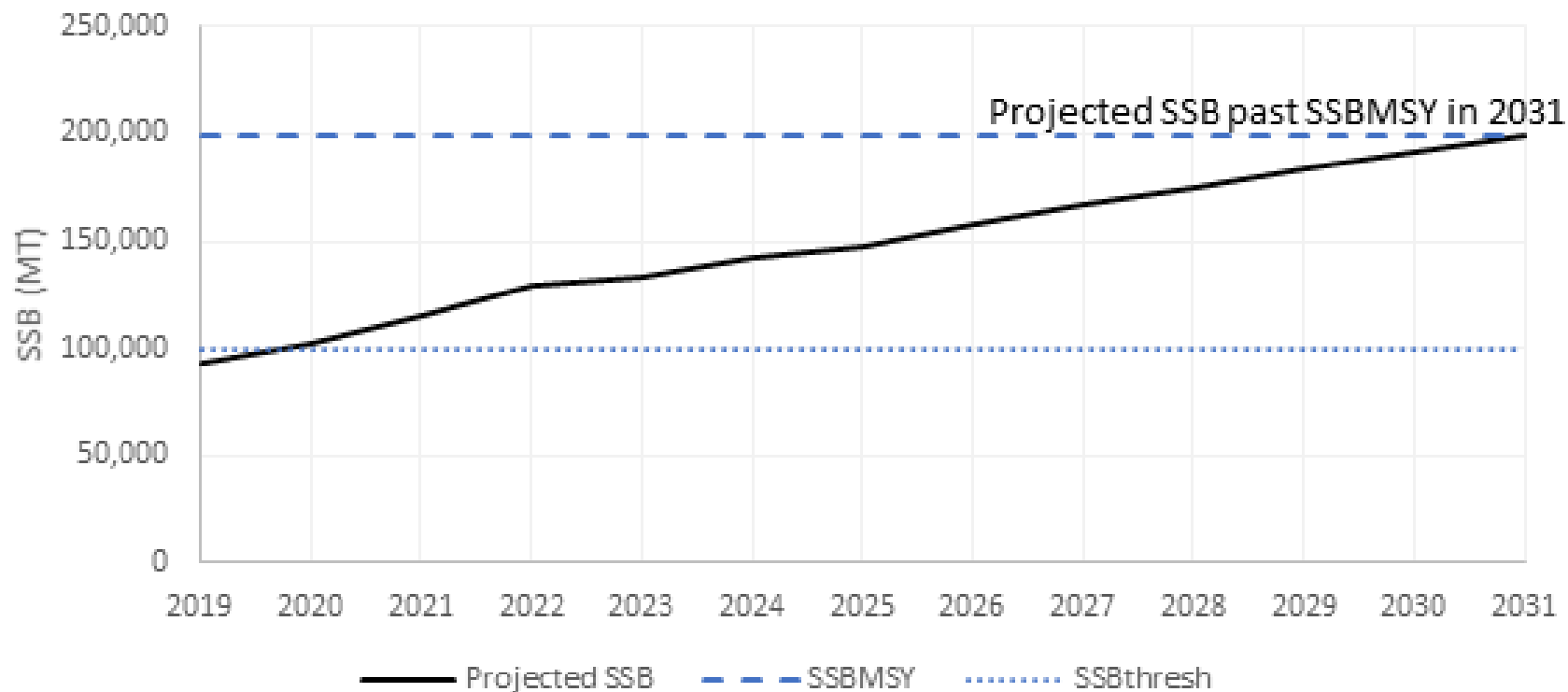
## Bluefish projection assuming ABC (2019-2021) F rebuild in 10 yrs



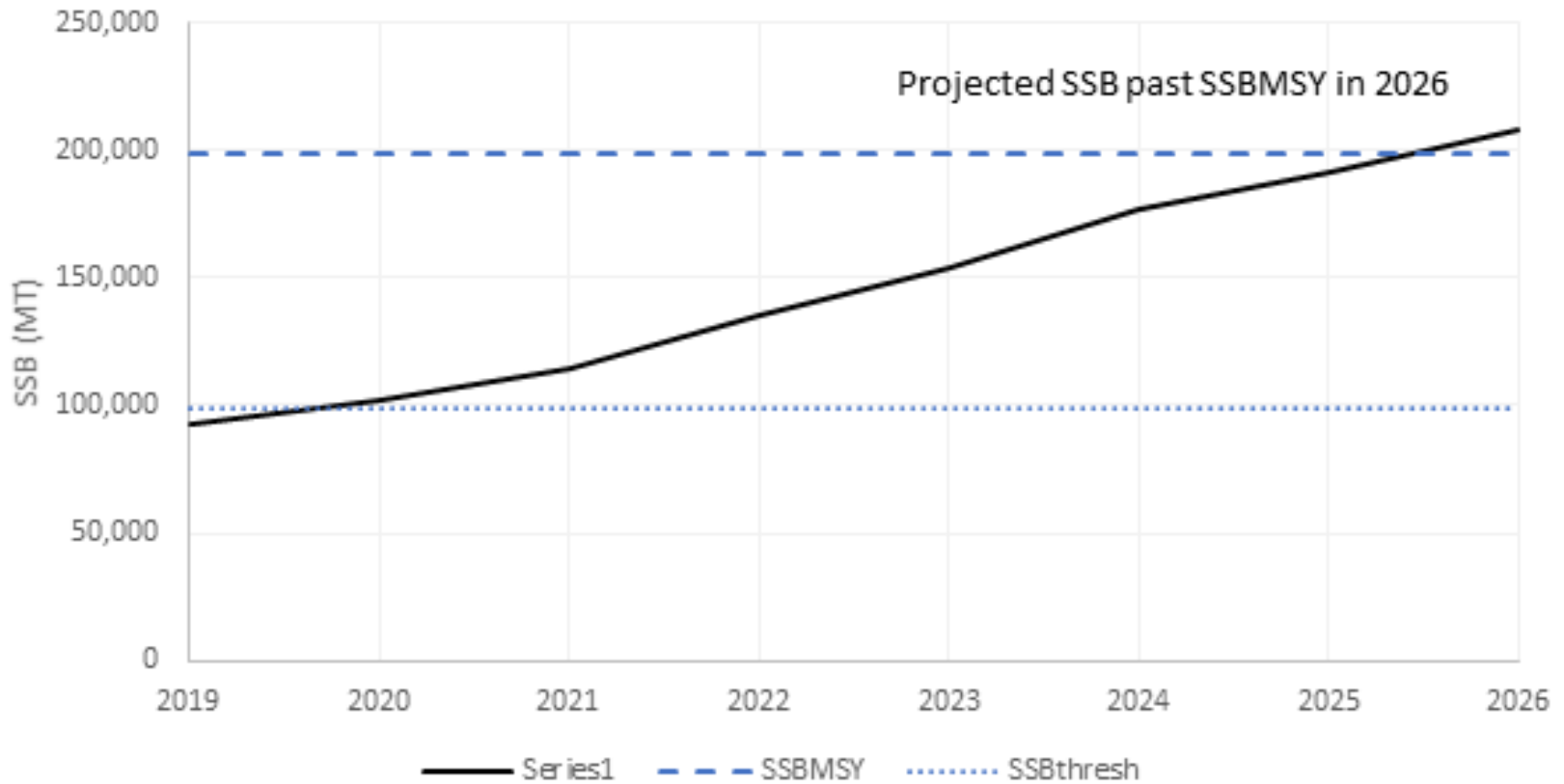
## Bluefish projection assuming ABC (2019-2021) F rebuild in 7 yrs



### Bluefish projection assuming ABC (2019-2021) Constant catch rebuild in 10 yrs



### Bluefish projection assuming ABC (2019-2021) Annual ABC Pstar projection





	1. Rebuilding split in June	2. Rebuilding split in August	3. Current – with some alternatives removed	4. Current – Extended
<b>Jun-20</b>	Initiate Framework to remove rebuilding		Refine alternatives	Refine alternatives
<b>Jul-20</b>				
<b>Aug-20</b>	Framework Meeting 1 and public hearing document	Initiate Framework to remove rebuilding	Approve range of alternatives for public hearing document	
<b>Sep-20</b>				
<b>Oct-20</b>				
<b>Nov-20</b>				
<b>Dec-20</b>	Framework Meeting 2	Framework Meeting 1 and public hearing document	Approve public hearing document	Approve range of alternatives for public hearing document
<b>Jan-21</b>				
<b>Feb-21</b>			Public Hearings	Approve public hearing document
<b>Mar-21</b>	Submit			
<b>Apr-21</b>				Public Hearings
<b>May-21</b>		Framework Meeting 2 (or next joint meeting)	Final Action	
<b>Jun-21</b>				Final Action
<b>Jul-21</b>		Submit	Submit	
<b>Aug-21</b>				
<b>Sept-21</b>				Submit
<b>Oct-21</b>				
<b>Nov-21</b>				